

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P295726

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2855.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

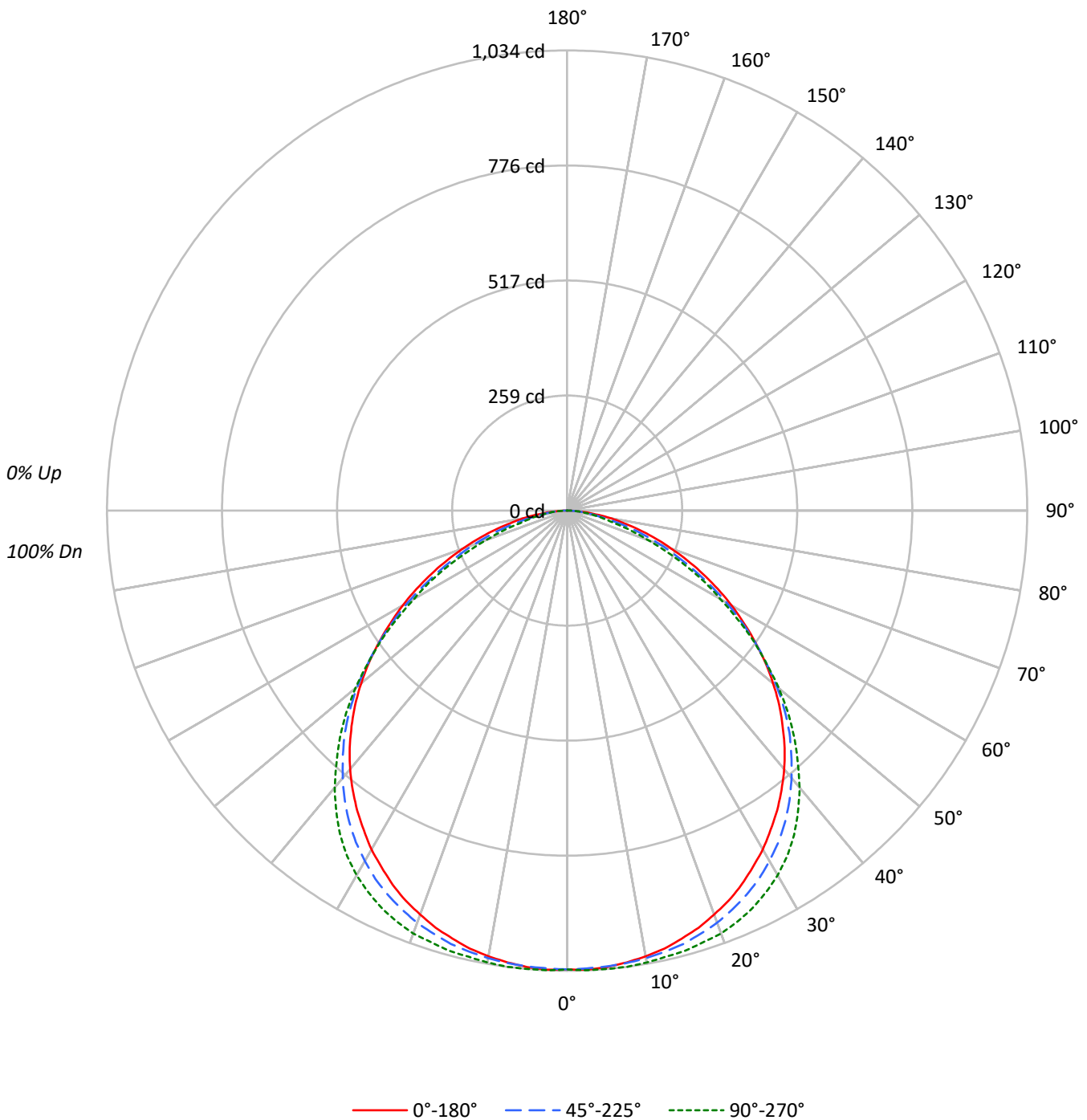
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2774	2774	2774
5°	2781	2777	2793
10°	2779	2790	2817
15°	2774	2809	2853
20°	2766	2823	2896
25°	2754	2830	2927
30°	2732	2825	2939
35°	2702	2805	2921
40°	2665	2755	2855
45°	2607	2688	2747
50°	2529	2577	2601
55°	2422	2415	2402
60°	2298	2221	2137
65°	2140	1987	1878
70°	1953	1740	1518
75°	1755	1445	1135
80°	1561	1055	989
85°	1226	877	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.4
10°-20°	285.2	10.0
20°-30°	440.2	15.4
30°-40°	533.9	18.7
40°-50°	542.1	19.0
50°-60°	458.6	16.1
60°-70°	310.2	10.9
70°-80°	150.0	5.3
80°-90°	36.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	823.6	28.8
0°-40°	1357.5	47.5
0°-60°	2358.1	82.6
0°-90°	2855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1030	1030	1028	1032	1034	98
15°	996	1001	1008	1020	1024	281
25°	928	935	953	977	986	427
35°	823	831	854	881	889	514
45°	685	686	706	720	722	528
55°	516	512	515	515	512	461
65°	336	322	312	299	295	333
75°	169	156	139	120	109	180
85°	40	31	28	28	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1032.5	1032.5	1029.6	1032.5	1033.9
5°	1029.6	1029.6	1028.2	1032.5	1033.9
7.5°	1024.0	1025.4	1025.4	1031.0	1033.9
10°	1016.9	1019.7	1021.1	1029.6	1031.0
12.5°	1008.4	1011.2	1015.4	1025.4	1026.8
15°	995.6	1001.3	1008.4	1019.7	1024.0
17.5°	982.8	988.5	997.0	1012.6	1016.9
20°	965.8	972.9	985.7	1004.1	1011.2
22.5°	948.8	954.5	970.1	992.8	999.8
25°	927.5	934.6	953.0	977.2	985.7
27.5°	903.4	913.3	933.2	958.7	967.2
30°	879.3	887.8	909.1	937.4	946.0
32.5°	850.9	859.4	883.6	910.5	920.4
35°	822.6	831.1	853.8	880.7	889.2
37.5°	791.4	797.0	821.1	843.8	852.3
40°	758.7	763.0	784.3	807.0	812.6
42.5°	723.3	726.1	746.0	765.8	767.3
45°	685.0	686.4	706.3	720.5	721.9
47.5°	646.7	645.3	662.3	672.2	673.7
50°	604.2	604.2	615.5	621.2	621.2
52.5°	561.6	558.8	564.5	568.7	564.5
55°	516.2	512.0	514.8	514.8	512.0
57.5°	470.8	462.3	463.8	460.9	453.8
60°	426.9	417.0	412.7	402.8	397.1
62.5°	381.5	370.2	361.6	350.3	348.9
65°	336.1	321.9	312.0	299.2	295.0
67.5°	292.2	279.4	265.2	251.0	242.5
70°	248.2	234.0	221.2	202.8	192.9
72.5°	208.5	195.7	180.1	158.8	151.7
75°	168.8	156.0	139.0	120.5	109.2
77.5°	130.5	120.5	102.1	86.5	85.1
80°	100.7	89.3	68.1	63.8	63.8
82.5°	65.2	58.1	48.2	45.4	45.4
85°	39.7	31.2	28.4	28.4	28.4
87.5°	15.6	14.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)